

Claims

1. A content reception terminal apparatus for writing a digital work received from an external distribution apparatus to a portable recording medium which has a storage area, comprising:

10 a reception unit operable to receive an encrypted digital work encrypted using a content key and the content key from the distribution apparatus, the encrypted digital work belonging to one of a plurality of categories, and all encrypted digital works belonging to a same category being digital works made up of a same logical data structure,

15 a distinguishing unit operable to distinguish a category to which a received encrypted work belongs,

20 a key encryption unit operable to encrypt the received content key using a key unique to the distinguished category, and generate the encrypted content key, and

25 a writing unit operable to write the received encrypted digital work and the generated encrypted content key to an area assigned to the distinguished category in the storage area of the recording medium.

2. The content reception terminal apparatus of Claim 1
wherein

the encrypted digital work includes type information
showing the category,

5 the reception unit receives the encrypted digital
work which includes the type information showing the
category,

10 the distinguishing unit extracts the type
information from the encrypted digital work, and
distinguishes the category using the extracted type
information,

the key encryption unit uses a key unique to and
corresponding to the extracted type information; and

the writing unit includes:

15 a table storage unit operable to store in
correspondence, for each category, type information
showing the category, and an area name showing an area in
the storage area to which the category is assigned,

20 an area name extraction unit operable to extract the
area name stored in correspondence with the extracted type
information from the table storage unit, and

an access unit operable to write the received
encrypted digital work to an area in the recording medium
shown by the extracted area name.

3. The content reception terminal apparatus of Claim 2
wherein

the recording medium further includes an apparatus
5 authentication unit operable to authenticate a validity
of the content reception apparatus, the storage area
including a authentication area,

the content reception terminal apparatus further
includes a medium authentication unit operable to
authenticate a validity of the recording medium, and

the writing means writes the encrypted content key
to the area assigned to the distinguished category in the
authentication area, when mutual authentication by the
apparatus authentication unit and the recording medium
15 authentication unit succeeds.

4. The content reception terminal apparatus of Claim 3
wherein

the recording medium further stores type information
20 specifying a type of the recording medium;

the content reception terminal apparatus further
includes:

a type information storage unit operable to store
type information showing a type of a recording medium

permitting writing by the content reception terminal,
a retrieval unit operable to retrieve type
information from the recording medium, and

5 a match judgement unit operable to judge whether the
recorded type information and the retrieved type
information match; and

the writing unit prevents the writing when the match
judgement unit judges the recorded type information and
the retrieved type information not to match.

10 5. The content reception terminal apparatus of Claim 4
wherein

the distribution apparatus broadcasts the encrypted
work and the content key on a digital broadcast wave,

15 the content reception apparatus is a digital
broadcast reception apparatus for receiving the digital
broadcast wave, and

the reception unit receives the digital broadcast
wave, and extracts the encrypted digital work and the
20 content key from the received digital broadcast wave.

6. A content reception method for use with a content
reception terminal apparatus for writing a digital work
received from an external distribution apparatus to a

portable recording medium which has a storage area, the method comprising:

 a reception step for receiving an encrypted digital work encrypted using a content key and the content key from 5 the distribution apparatus, the encrypted digital work belonging to one of a plurality of categories, and all encrypted digital works belonging to a same category being digital works made up of a same logical data structure,

 a distinguishing step for distinguishing a category 10 to which a received encrypted work belongs,

 a key encryption step for encrypting the received content key using a key unique to the distinguished category, and generate the encrypted content key, and

 a writing step for writing the received encrypted 15 digital work and the generated encrypted content key to an area assigned to the distinguished category in the storage area of the recording medium.

7. A computer-readable recording medium recording a 20 content reception program for use with a computer for writing a digital work received from an external distribution apparatus to a portable recording medium which has a storage area, the content reception program comprising:

a reception step for receiving an encrypted digital work encrypted using a content key and the content key from the distribution apparatus, the encrypted digital work belonging to one of a plurality of categories, and all 5 encrypted digital works belonging to a same category being digital works made up of a same logical data structure,

a distinguishing step for distinguishing a category
to which a received encrypted work belongs,

10 a key encryption step for encrypting the received content key using a key unique to the distinguished category, and generate the encrypted content key, and
15 a writing step for writing the received encrypted digital work and the generated encrypted content key to an area assigned to the distinguished category in the storage area of the recording medium.

8. A content reception program for use with a computer for writing a digital work received from an external distribution apparatus to a portable recording medium which has a storage area, comprising:

a reception step for receiving an encrypted digital work encrypted using a content key and the content key from the distribution apparatus, the encrypted digital work belonging to one of a plurality of categories, and

all encrypted digital works belonging to a same category being digital works made up of a same logical data structure,

- a distinguishing step for distinguishing a category
- 5 to which a received encrypted work belongs,
- a key encryption step for encrypting the received content key using a key unique to the distinguished category, and generate the encrypted content key, and
- 10 a writing step for writing the received encrypted digital work and the generated encrypted content key to an area assigned to the distinguished category in the storage area of the recording medium.

PRINTED IN U.S.A. 01/01/01